

AMENDMENTS TO CLAIMS

Please **CANCEL** claims 8, 18, and 21- 26 without prejudice or disclaimer.

Please **AMEND** claims 1, 14, 15 and 17 as follows:

A copy of all pending claims and a status thereof are provided below.

1. (currently amended) An apparatus for loading mail objects, comprising:
a bucket assembly which holds a container;
an actuator system moving the bucket assembly between at least an upright position, an intermediate tilt position and a full tilt position;
at least one sensor which detects whether the bucket assembly has reached a fill capacity at each of the upright position, the intermediate tilt position and the full tilt position; ~~and~~
a feedback control system which controls an indexing of the bucket assembly, via the actuator system, between the upright position, the intermediate tilt position and the full tilt position; and
a chute sensor which detects package or mail object backlog within the chute upstream from the bucket assembly,
wherein in the intermediate position, packages or other mail objects are permitted to settle within the bucket assembly such that additional packages or other mail objects can be introduced into the bucket assembly in the intermediate position.

2. (original) The apparatus of claim 1, further comprising a sensor determining whether any variable sized mail holding container is properly positioned within the bucket assembly.

3. (original) The apparatus of claim 1, wherein the intermediate tilt position and the full tilt position minimize damage to the packages or other mail objects.

Serial No.: 10/602,711

4. (previously presented) The apparatus of claim 1, wherein the bucket assembly includes an open sided configuration for accommodating variable sized mail containers.

5. (original) The apparatus of claim 1, further comprising a safety sensor associated with the actuator assembly to ensure shut down of the actuator assembly based on a detected problem.

6. (original) The apparatus of claim 1, further comprising at least an additional sensor to detect other positions of the bucket assembly for providing signal controls to at least control movement of the bucket assembly.

7. (original) The apparatus of claim 6, wherein the other positions is at least one of an upright and down position.

8. (canceled)

9. (original) The apparatus of claim 1, further comprising a cradle assembly which holds the bucket assembly, the cradle assembly being coupled to the actuator system.

10. (original) The apparatus of claim 9, wherein the cradle assembly includes a cradle shaft coupled to a mounting system of a frame assembly.

11. (original) The apparatus of claim 9, wherein the cradle assembly further includes lift ribs coupled to a mount assembly of the actuator system.

12. (original) The apparatus of claim 1, wherein the actuator system is one of a hydraulic system, air cylinder and screw-type system.

Serial No.: 10/602,711

13. (original) The apparatus of claim 1, wherein the actuator system includes a linkage system which assists in the tilting and other movements of the bucket assembly.

14. (currently amended) The apparatus of claim 1, wherein the bucket assembly includes a floor assembly and a rear wall assembly for supporting any variable sized containers, the rear wall assembly including ~~a substantially coplanar surface, where one surface of the coplanar surface is raised with respect to another surface of the coplanar surface.~~

15. (currently amended) The apparatus of claim 14, wherein the raised ~~coplanar~~ surface permits packages to be introduced into a half sized container while minimizing false trips of at least one of the at least one sensors.

16. (original) The apparatus of claim 1, wherein the feedback control system is a positional feedback system associated with the actuator assembly for controlling the movement of the bucket assembly.

17. (currently amended) A loading system, comprising:
a transporting and sorting system, including:

an induction mechanism that introduces packages onto a transporting system which transports the packages from the induction mechanism to a plurality of drop off positions;

a chute associated with each of the plurality of drop off positions; and

a loading apparatus, comprising:

a bucket assembly which holds a container; an actuator system moving the bucket assembly between at least an upright position, an intermediate tilt position and another tilt position;

at least one sensor which detects whether the bucket assembly has reached a fill capacity at each of the upright position, the intermediate tilt position and the another tilt position;
and

Serial No.: 10/602,711

a feedback control system which controls an indexing of the bucket assembly, via the actuator system, between the upright position, the intermediate tilt position and the another tilt position;

a sensor determining whether the container is properly positioned within the bucket assembly;

a safety sensor associated with the actuator system ensuring shut down of the actuator system based on a detected problem; and

at least an additional sensor to detect at least one of an upright and down position of the bucket assembly; and

a chute sensor located proximate to the chute which detects package backlog on the chute.

18. (canceled)

19. (previously presented) The loading apparatus of claim 17, wherein the feedback control system is a positional system associated with the actuator system.

20. (original) The loading apparatus of claim 17, wherein the feedback control system includes position sensors providing feedback signals to a controller for indexing the movement of the bucket assembly.

21.-26. (canceled)